

What is Claimed is:

1. A parenteral adjuvant composition comprising a detoxified mutant of a bacterial ADP-5 ribosylating toxin as the parenteral adjuvant and at least one selected antigen.

10 2. A composition according to claim 1 wherein the non-toxic adjuvant is a detoxified mutant selected from the group consisting of cholera toxin (CT), pertussis toxin (PT), and an *E. coli* heat-labile toxin (LT).

15 3. A composition according to claim 2 wherein the detoxified mutant comprises one or more amino acid additions, deletions or substitutions in the A subunit of the bacterial holotoxin.

20 4. A composition according to claim 3 wherein the detoxified mutant is selected from the group consisting of LT-K63, LT-R72, CT-S109, and PT-K9/G129.

25 5. A composition according to claim 4 wherein the detoxified mutant is LT-K63.

6. A composition according to claim 4 wherein the detoxified mutant is LT-R72.

30 7. A parenteral adjuvant composition comprising a detoxified mutant of a bacterial ADP-ribosylating toxin as the parenteral adjuvant and a pharmaceutically acceptable topical vehicle.

35 8. A composition according to claim 7 wherein the non-toxic adjuvant is a detoxified mutant selected

from the group consisting of cholera toxin (CT), pertussis toxin (PT), and an *E. coli* heat-labile toxin (LT).

5           9. A composition according to claim 8 wherein the detoxified mutant comprises one or more amino acid additions, deletions or substitutions in the A subunit of the bacterial holotoxin.

10           10. A composition according to claim 9 wherein the detoxified mutant is selected from the group consisting of LT-K63, LT-R72, CT-S109, and PT-K9/G129.

15           11. A composition according to claim 10 wherein the detoxified mutant is LT-K63.

12. A composition according to claim 10 wherein the detoxified mutant is LT-R72.

20           13. The composition of claim 7, further comprising at least one selected antigen.

25           14. A parenteral adjuvant composition comprising a detoxified mutant of a bacterial ADP-ribosylating toxin as the parenteral adjuvant, a pharmaceutically acceptable topical vehicle and at least one selected antigen.

30           15. A method for making a parenteral adjuvant composition comprising combining a detoxified mutant of a bacterial ADP-ribosylating toxin as the parenteral adjuvant with at least one selected antigen.

35           16. A method according to claim 15, further comprising combining a pharmaceutically acceptable

topical vehicle with the parenteral adjuvant and the antigen.

17. A method of making a parenteral adjuvant  
5 composition comprising combining a detoxified mutant of a bacterial ADP-ribosylating toxin as the parenteral adjuvant with a pharmaceutically acceptable topical vehicle.

10 18. A method according to claim 17, further comprising combining at least one selected antigen with the detoxified mutant of a bacterial ADP-ribosylating toxin and the pharmaceutically acceptable topical vehicle.

15 19. A method for immunizing a vertebrate subject comprising parenterally administering to the vertebrate subject an immunologically effective amount of  
20 a) an adjuvant comprising a detoxified mutant of a bacterial ADP-ribosylating toxin in combination with a pharmaceutically acceptable vehicle; and  
b) at least one selected antigen.

25 20. A method according to claim 19 wherein the non-toxic adjuvant is a detoxified mutant selected from the group consisting of cholera toxin (CT), pertussis toxin (PT), and an *E. coli* heat-labile toxin (LT).

30 21. A method according to claim 20 wherein the detoxified mutant comprises one or more amino acid additions, deletions or substitutions in the A subunit of the bacterial holotoxin.

22. A method according to claim 21 wherein the detoxified mutant is selected from the group consisting of LT-K63, LT-R72, CT-S109, and PT-K9/G129.

5 23. A method according to claim 22 wherein the detoxified mutant is LT-K63.

24. A method according to claim 22 wherein the detoxified mutant is LT-R72.

10 25. A method according to claim 19, wherein the adjuvant and antigen are administered subcutaneously, transcutaneously or intramuscularly.

15 26. A method according to claim 19, wherein the pharmaceutically acceptable vehicle is a topical vehicle.

20 27. A method according to claim 26, wherein the adjuvant and antigen are administered transcutaneously.

25 28. A method according to claim 19, wherein the adjuvant is administered to the vertebrate subject prior to administering the selected antigen.

30 29. A method according to claim 19, wherein the adjuvant is administered to the vertebrate subject subsequent to administering the selected antigen.

35 30. A method according to claim 19, wherein the antigen is administered to the vertebrate subject concurrent with administering the selected antigen.

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